

Appl. No. 10/770,258
Examiner: CHEN, WEN YING PATTY, Art Unit 2871
In response to the Office Action dated May 19, 2006

Date: August 21, 2006
Attorney Docket No. 10113711

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-6 (Canceled)

Claim 7 (Currently amended): A liquid crystal module, comprising:

a body; and

a circuit board disposed on the body, comprising a substrate having a first side and a second side, a plurality of lead wires enclosed by the substrate between the first side and the second side, a plurality of corresponding opposing openings formed on the first side and the second side to expose the lead wires, an LED coupled to the lead wires through the openings on the first side, and a Zener diode coupled to the lead wires through the corresponding openings on the second side, wherein the LED and the Zener diode are oppositely disposed on the lead wires on the first side and the second side respectively.

Claim 8 (Canceled)

Claim 9 (Original): The liquid crystal module as claimed in claim 7, wherein the Zener diode is coupled to the lead wires by welding.

Claim 10 (Original): The liquid crystal module as claimed in claim 7, wherein the body is rectangular.

Claim 11 (Original): The liquid crystal module as claimed in claim 7, wherein the body is made of plastic.

Claim 12 (Original): The liquid crystal module as claimed in claim 7, wherein the liquid crystal module is a liquid-crystal display of a mobile phone.

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Claim 13 (Original): The liquid crystal module as claimed in claim 7, wherein the liquid crystal module is a liquid-crystal display of a personal digital assistant.

Claim 14 (Currently amended): A liquid crystal module, comprising:
a body; and
a circuit board comprising:

an insulating substrate comprising a first side and a second side;
a plurality of lead wires enclosed by the insulating substrate;
an LED; and
a Zener diode;
wherein a plurality of corresponding opposing openings are provided in the first and second sides of the insulating substrate exposing the lead wires, and the LED and Zener diode are each coupled to the lead wires through the openings, wherein the LED is coupled to the lead wires through the openings on the first side and the Zener diode is coupled to the lead wires through the corresponding openings on the second side opposite to the LED.

Claims 15-19 (Canceled)

Claim 20 (Previously presented): The liquid crystal module as claimed in claim 14, further including a port, wherein the lead wires enclosed by the substrate connect the LED and Zener diode to the port.

Claim 21 (Currently amended): The liquid crystal module as claimed in claim 14, wherein the plurality of lead wires include at least a first lead wire and a second lead wire, and the LED and Zener diode are each coupled to each of the first and second lead wires in parallel through the openings and on the same side of the insulating substrate.

Claim 22 (Previously presented): The liquid crystal module as claimed in claim 21, wherein the first and second lead wires extend in a direction parallel to a top or bottom surface of the substrate.